Washington Department of FISH and WILDLIFE

State of Washington
DEPARTMENT OF FISH AND WILDLIFE

Mailing Address: 600 Capitol Way N, Olympia, Washington 98501-1091 - (360) 902-2200

ENVIRONMENTAL CHECKLIST
(WAC 197-11-960)

A. BACKGROUND

1. **Name of proposed project, if applicable:** BEAVER CREEK HATCHERY – REPAIR

2. **Name of Applicant:** Washington Department of Fish and Wildlife

3. **Address and phone number of applicant and contact person:**

Washington Dept of Fish and Wildlife
Capitol Programs & Engineering Division
600 Capitol Way North
Olympia, WA 98501-1091

Contact Person: Cindy Knudsen
Fish and Wildlife Biologist
Telephone Number: (360) 902-8422
Fax Number: (360) 902-8367
E-Mail: cindy.knudsen@dfw.wa.gov

4. **Date checklist prepared:** February 26, 2010

5. **Agency requesting checklist:** Washington Department of Fish and Wildlife.

6. **Proposed timing or schedule (including phasing, if applicable):**

   July 16, 2010 – Sept 15, 2010.

7. **Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.**

   No.

8. **List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal:**

   See FEMA attachments related to the flood of 2009 at this location:
   FEMA Record of Consideration Report (REC) FEMA's NEPA review
   FEMA Project Worksheet PW 314

9. **Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.**

   None are pending.

10. **List any government approvals or permits that will be needed for your proposal, if known.**

A WDFW HPA, CORP Section 404, and a Section 401 Water Quality Certification will be needed.

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page.

This project replaces quarry spalls and riprap armoring eroded during the 2009 flood from the intake location, and the west bank of the rearing pond as detailed on attached facility maps.

LOCATION OF REPAIR	MATERIALS	AREA RESTORED	AMOUNT
Beaver Creek Hatchery Intake At East end of complex	Quarry spalls	**10 feet x 12 feet x 8 feet**	36 cy
Beaver Creek Hatchery West end of the fish rearing pond	Riprap	**5 feet x 20 feet x 3 feet** Two locations where water is entering from drain pipes on the west bank area of the rearing pond	22 cy total for the two pipe locations

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

The proposed location is within the Beaver Creek Hatchery Complex. 28 Beaver Creek Rd Cathlamet, WA 98612. From I5 South, take exit 40 toward WA-4/Kelso/Longview/Long Beach. Turn Right onto N. Kelso Ave (WA-431). Continue to follow WA-431. Turn right onto Cowlitz Way/ WA 4. Turn slight right onto Ocean Beach Highway/WA4. Turn right onto Elochoman Valley Rd WA/407. Turn Right onto Beaver Creek Road (also known as Duck Creek Road). T9N, R5W, S 17.

B. ENVIRONMENTAL ELEMENTS

1. Earth

a. General description of the site (underline one): flat, <u>rolling</u>, hilly, steep slopes, mountainous, other_____.

This site is flat, alongside Duck Creek, (also known as Beaver Creek).

b. What is the steepest slope on the site (approximate percent slope)?

8% slope located on the east side of the river.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of the agricultural soils, specify them and note any prime farmland.

Elochoman Silt Loam.

d. **Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.** No.

e. **Describe the purpose, type and approximate quantities of any filling or grading proposed. Indicate source of fill.**

Quarry Spalls (36 CY) will be placed at the Beaver Creek Hatchery intake at the east end of the hatchery complex at the beginning of a hatchery pond. On the banks located at the other end of the pond (22 CY) of riprap will be placed for bank stabilization at two locations where water is entering from drain pipes on the western bank area of the rearing pond. All materials will be obtained from a local quarry.

f. **Could erosion occur as a result of clearing, construction or use? If so generally describe.**

Yes, repairs to Beaver Creek Hatchery will temporarily disturb impervious surfaces.

g. **About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?**

There will be no increase in impervious surfaces at this site.

h. **Proposed measures to reduce or control erosion, or other impacts to the earth, if any:**

Erosion impacts will be reduced by placing a sediment barrier around the construction site and other BMPs to isolate the disturbed area from surface waters.

2. **Air**

a. **What type of emissions to the air would result from the proposal (i.e., dust automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.**

Low levels of vehicle exhaust emissions and dust from construction activities are expected during project activities. No long-term effects in air quality are anticipated to result from the completed project.

b. **Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.** No.

c. **Proposed measures to reduce or control emissions or other impacts to air, if any:** None.

3. **WATER**

a. **Surface**

1) **Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes ponds or wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.**

Beaver Creek, (also known as Duck Creek) where the hatchery is located is a year round creek that flows into the Elochoman River, which drains into the Columbia River.

2) **Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.**

Yes, all components are adjacent to Beaver Creek on the hatchery grounds (see attached plans).

3) **Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.**

The fill that will be placed at the Beaver Creek Hatchery with an excavator operating from above OHW is listed in the following table:

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4) **Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.**

No.

5) **Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.**

No. See attached: Record of Environmental Consideration Report.

6) **Does the proposal involve any discharges of waste material to surface waters? If so, describe the type of waste and anticipated volume of discharge.** No.

b. **Ground**

1) **Will ground water be withdrawn, or will water be discharged to ground water? Give general description purpose, and approximate quantities, if known.** No.

2) **Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals . . . ; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.**

No waste material will be discharged.

c. **Water Runoff (including storm water):**

1) **Describe the source of runoff (including storm water) and method of collection and disposal, if any (including quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.**

This will not change storm water runoff patterns.

2) **Could waste materials enter ground or surface waters? If so, generally describe.** No.

d. Proposed measures to reduce or control surface, ground and runoff water impacts, if any:

BMP measures will be utilized.

4. PLANTS

a. Check or underline types of vegetation found on the site:

_x_ deciduous tree: alder, maple, other

_x_ evergreen tree: hemlock, cedar, fir

___ shrubs

_x_ grass

___ pasture

___ crop or grain

___ wet soil plants: cattail, buttercup, bulrush, skunk cabbage, other

___ water plants: waterlily, eelgrass, milfoil, other

___ other types of vegetation

b. What kind and amount of vegetation will be removed or altered? No vegetation will be removed.

c. List threatened and endangered species [of plants] known to be on or near the site.

None.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:
None.

5. ANIMALS

a. Underline any birds or animals, which have been observed on or near the site or are known to be on or near the site:

Birds: hawk, heron, eagle, songbirds, other: common merganser.

Mammals: deer, bear, elk, beaver, other:

Fish: bass, salmon, trout, herring, shellfish, other: cutthroat trout.

b. List any threatened or endangered species known to be on or near the site.

Fall Chum (T) are in the area outside the hatchery grounds, however they are not in this location either as adults or migrating fry during the work window.

c. Is the site part of a migration route? If so, explain.

Winter migrations of Roosevelt Elk are known to be in the area.

There are populations of Fall Chum, Winter Steelhead. Coho and Fall Chinook in the area that pass through past the hatchery, or they may go upstream to spawn naturally as adults. Juvenile salmonid species also migrate downstream through this location.

d. Proposed measures to preserve and enhance wildlife, if any:

No work will be done within the stream or in undeveloped areas.

6. ENERGY AND NATURAL RESOURCES

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc. None.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe. No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any: None.

7. ENVIRONMENTAL HEALTH

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill or hazardous waste that could occur as a result of this proposal. No.

1) Describe special emergency services that might be required. None.

2) Proposed measures to reduce or control environmental health hazards, if any: None.

b. Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)? None.

4) What types and levels of noise would be created by or associated with the project on a short-term or long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site.

Temporary increases in noise levels during construction activities are expected from this project. Hours of increased noise will be 8 am to 5 pm. No long term change in noise levels is expected from the completed project.

3) Proposed measures to reduce or control noise impacts, if any: None.

8. LAND AND SHORELINE USE

a. What is the current use of the site and adjacent properties?

This site is used as a hatchery facility for steelhead. Adjacent properties are rural and primarily undeveloped.

b. Has the site been used for agriculture? If so describe? No.

c. Describe any structures on the site.

Structures on this site include a hatchery office/incubation building, several storage buildings, a spawning shed, diversion dam, multiple fish rearing ponds, and four private residences.

d. Will any structures be demolished? If so what? No.

e. What is the current zoning classification of the site? NA.

f. What is the current comprehensive plan designation of the site?
Rural residential

g. If applicable, what is the current shoreline master program designation of the site?

Rural

h. Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

No.

i. Approximately how many people would reside or work in the completed project?

Three WDFW staff work at this hatchery.

j. Approximately how many people would the completed project displace? None.

k. Proposed measures to avoid or reduce displacement impacts, if any: None.

l. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

Proposed project will provide long-term protection to the Beaver Creek Hatchery Grays River Hatchery facility.

9. HOUSING

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing. None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing. None.

c. Proposed measures to reduce or control housing impacts, if any: None.

10. AESTHETICS

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

Proposed repairs would not extend above ground level. Riprap and quarry spalls will be the only placed building materials.

b. What views in the immediate vicinity would be altered or obstructed? None.

c. Proposed measures to reduce or control aesthetic impacts, if any: None.

11. LIGHT AND GLARE

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

The repair would not produce glare.

b. Could light or glare from the finished project be a safety hazard or interfere with views? No.

c. What existing off-site sources of light or glare may affect your proposal? None.

d. Proposed measures to reduce or control light and glare impacts, if any: None.

12. RECREATION

a. What designated and informal recreational opportunities are in the immediate vicinity?

There are fishing and hunting opportunities at this site. There are also salmon viewing opportunities available at the hatchery.

b. Would the proposed project displace any existing recreational uses? If so, describe. No.

c. Proposed measures to reduce or control impacts on recreation, including recreational opportunities to be provided by the project or applicant, if any: None.

13. HISTORIC AND CULTURAL PRESERVATION

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

None are known.
(See FEMA Record of Environmental Consideration report – NEPA review comment dated 5 13 09)

b. Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site. None are known.

c. Proposed measures to reduce or control impacts, if any: None.

14. TRANSPORTATION

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any. Fish Hatchery Road.

b. Is site currently served by public transit? If no, what is the approximate distance to the nearest transit stop?

No. The nearest public transit stop is unknown.

c. How many parking spaces would the completed project have? How many would the project eliminate? None.

d. Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

None.

e. Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

The project will not occur near areas of water, rail or air transportation.

f. How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

No change in vehicle trips will occur.

g. Proposed measures to reduce or control transportation impacts, if any: None.

15. PUBLIC SERVICES

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so generally describe. No.

b. Proposed measures to reduce or control direct impacts on public services, if any: None.

16. UTILITIES

a. Underline utilities currently available at the site: Electricity, Natural Gas, Water, Refuse Service, Telephone, Sanitary Sewer, Septic System, Other.

b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity, which might be needed.

No utilities will be added or changed from this project.

C. SIGNATURE

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

SIGNATURE: Cynthia Knight **DATE SUBMITTED:** 2/26/2010